

3004-10US

IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Emmanuel Zazopoulos et al.

Examiner: Unassigned

Serial No.: 10/760,494

Group Art Unit: Unassigned

Filed: January 21, 2004

For:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(b)(1)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

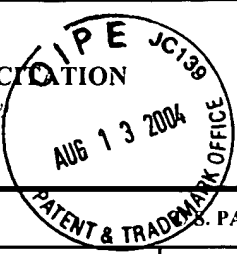
Applicant submits, pursuant to 37 C.F.R. §§ 1.97 and 1.98, a form PTO-A820 with the sixty-one (65) references listed thereon, copies of which are submitted herewith. It is respectfully requested that, the examiner consider and cite of record these references. Applicant would appreciate the examiner initialing and returning the Form PTO-A820 indicating the information has been considered and made of record.

This Information Disclosure Statement is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

Respectfully submitted,

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Dated: August 12, 2004
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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 3004-10US		Application Number USSN 10/760,494		
				Applicant(s) Zazopoulos, Emmanuel				
				Filing Date January 21, 2004		Group Art Unit		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	A1	US 4,452,775	06.05.84	Syntex (USA) Inc.	A61K	9/26		
	A2	US 5,039,660	08.13.91	Endocon Inc.	C07K	17/08		
	A3	US 3,854,480	12.17.74	Alza Corporation	A61M	5/00		
	A4	US 6,361,974	03.26.02	Diversa Corporation	C12P	21/06		
	A5	US 6,372,497	04.16.02	Maxygen Inc.	C12N	15/00		
	A6	US 4,946,778	08.07.90	Genex Corporation	C12N	15/00		
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
	B1	WO 01/34816	05.17.01	WO	C12N	15/76		
	B2	WO 03/062458	07.31.03	WO	C12Q	1/02		
	B3	CA 2,352,451	07.24.01	CA	C12Q	1/68		
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>								
	C1	Sakuda et al., Tetrahedron Letters, (1995) vol.36, no.16, pp.2777-2780 "Linearmycin A, a novel linear polyene antibiotic"						
	C2	Sakuda et al., J Chem. Soc. Perk. Trans., (1996) 1, pp.2315-2319 "Novel linear polyene antibiotics: linearmycins"						
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C3		Pawlack et al., Journal of Antibiotics, (1980) vol.33 no.9, pp.989-997 "The structure of lienomycin, a pentaene macrolide antitumor antibiotic"
C4		Berge SM et al., Journal of Pharmaceutical Sciences, (1977) vol.66 no.1, pp.1-19 "Pharmaceutical Salts"
C5		Goodfellow, Bergey's manuel of systematic bacteriology, vol.4, pp.2322-2339 "Suprageneric classification of actinomycetes"
C6		Embley et al., Annu. Rev. Microbiol., (1994) vol.48, pp.257-289 "The molecular phylogeny and systematics of the actinomycetes"
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C10		Brautaset et al., Chem. Biol., (2000) vol.7, no.6, pp.395-403 "Biosynthesis of the polyene antifungal antibiotic nystatin in Streptomyces noursei ATCC 11455: analysis of the gene cluster and deduction of the biosynthetic pathway"
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C14		Hopwood, Chem. Rev., (1997) vol.97, no.7, pp.2465-2497 "Genetic Contributions to Understanding Polyketide Synthases"
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C16		Reid et al., Biochemistry, (2003) vol.42, no.1, pp.72-79 "Abstract A model of structure and catalysis for ketoreductase domains in modular polyketide synthases"
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C22		Kao et al., Science, (1994) vol.265(5171), pp.509-512 "Abstract Engineered biosynthesis of a complete macrolactone in a heterologous host"
C23		Oh, SH; Chater KF, Journal of Bacteriology, (1997) vol.179, no.1, pp.122-127 "Denaturation of circular or linear DNA facilitates targeted integrative transformation of Streptomyces coelicolor A3(2): possible relevance to other organisms"
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C25		Paradkar et al., Appl. Environ. Microbiol., (2001) vol.67, no.5, pp.2292-2297 "Applications of gene replacement technology to Streptomyces clavuligerus strain development for clavulanic acid production"
C26		Blanco et al., Mol. Gen. Genet., (2000) vol.262, no.6, pp.991-1000 "Characterization of two glycosyltransferases involved in early glycosylation steps during biosynthesis of the antitumor polyketide mithramycin by Streptomyces argillaceus"
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C27		Chen et al., Gene, (2001) vol.263, no.1-2, pp.255-64 "The Strptomyces venezuelae pika V gene contains a transcription unit essential for expression of enzymes involved in glycosylation of narbonolide and 10-deoxymethynolide"
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C30		Carrillo H et al., SIAM J. Applied Math., (1988) vol.48, no.5, pp.1073-1082 "The multiple sequence alignment problem in biology"
C31		Gluzman Y, Cell, (1981) vol.23, no.1, pp.175-82 "SV40-transformed simian cells support the replication of early SV40 mutants"
C32		Leung DW et al., Technique, (1989) vol.1, pp.11-15 "A method for random mutagenesis of a defined DNA segment using a modified polymerase chain reaction"
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C34		Reidharr-Olson, JF et al., Science, (1988) vol.241 (4861), pp.53-57 "Combinatorial cassette mutagenesis as a probe of the informational content of protein sequences"
C35		Kholer et al., Nature, (1975) vol.256, pp.495-497 "Continuous cultures of fused cells secreting antibody of predefined specificity"
C36		Kozbor et al., Immunology Today, (1983) vol.4, no.3, pp.72-79 "The production of monoclonal antibodies from human lymphocytes"
C37		Cole et al., Monoclonal Antibodies and Cancer Therapy, Alan R. Liss Inc., (1985) pp.77-96 "The EBV-hybridoma technique and its application to human lung cancer"
C38		Wood T., Methods in Enzymology, (1988) vol.160, pp.87-116 "Methods for measuring Cellulase Activities"

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C40	Zazopoulos et al., Nature Biotechnology, (2003) vol.21, pp.187-190 "A genomics-guided approach for discovering and expressing cryptic metabolic pathways"
C41	Grote R., Zeeck A., J. Antibiot., (1988) vol.41, pp.1178-95 "Colabomycin A from Streptomyces griseoflavus Tue 2880"
C42	Osada et al., J. Antibiot., (1991) vol.44, pp.1463-6 "Enopeptin-A from Streptomyces griseus"
C43	He H et al., J. Antibiot., (2000) vol.53, no.2, pp.191-195 "Isolation and structural elucidation of AC326-alpha, a new member of the moenomycin group"
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C47	Fisher H. et al., Proceedings of the Society for Experimental Biology and Medicine, (1974) vol.145, pp.836-839 "Effect of candidin on plasma cholesterol and avian atherosclerosis."
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C49	Barbaro A. et al., Archivio per Scienze Mediche, (1980) vol.137, pp.211-216 "Action of a polyene macrolide on hyperdyslipidaemic disorders"
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C55		Worthen, D.R. et al., Drug Development and Industrial Pharmacy, (2001) vol.27, no.4, pp.277-286 "Methods for the recovery and purification of polyene antifungals"
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